

FIG. 1

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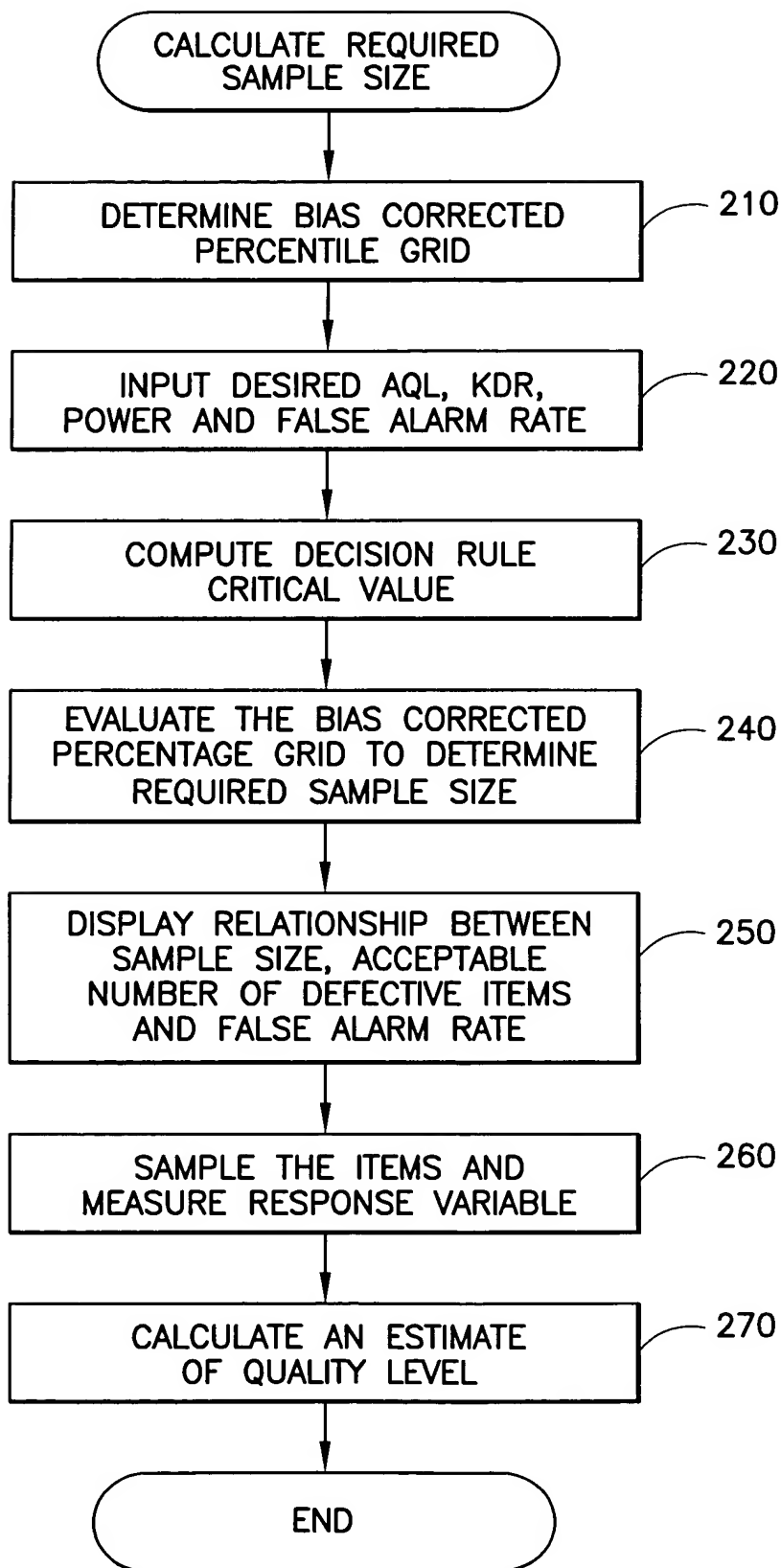


FIG.2

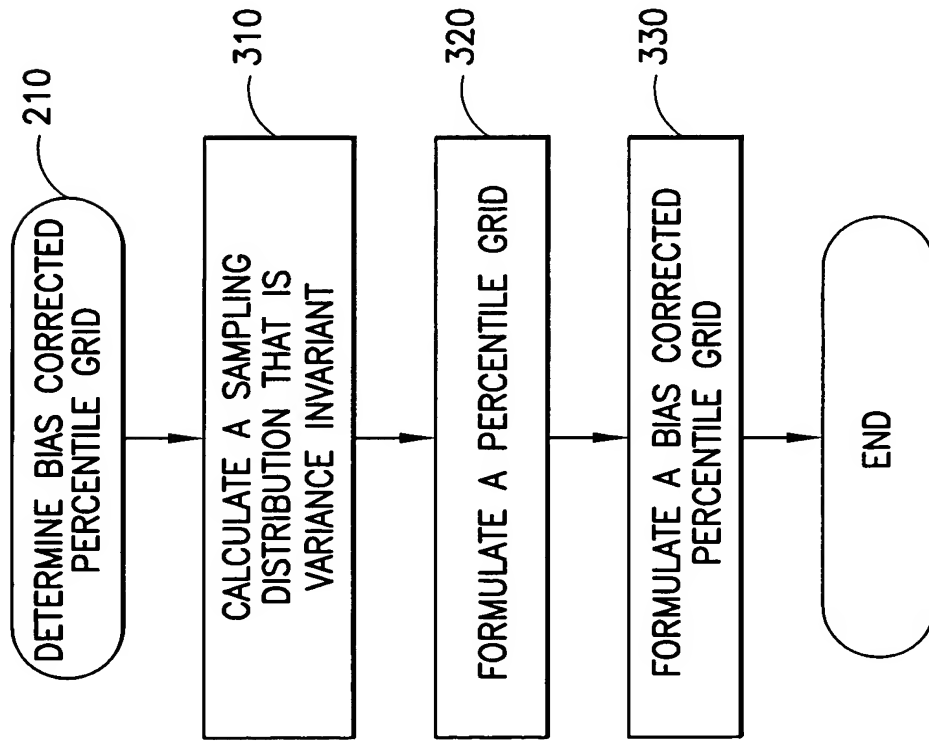


FIG.3

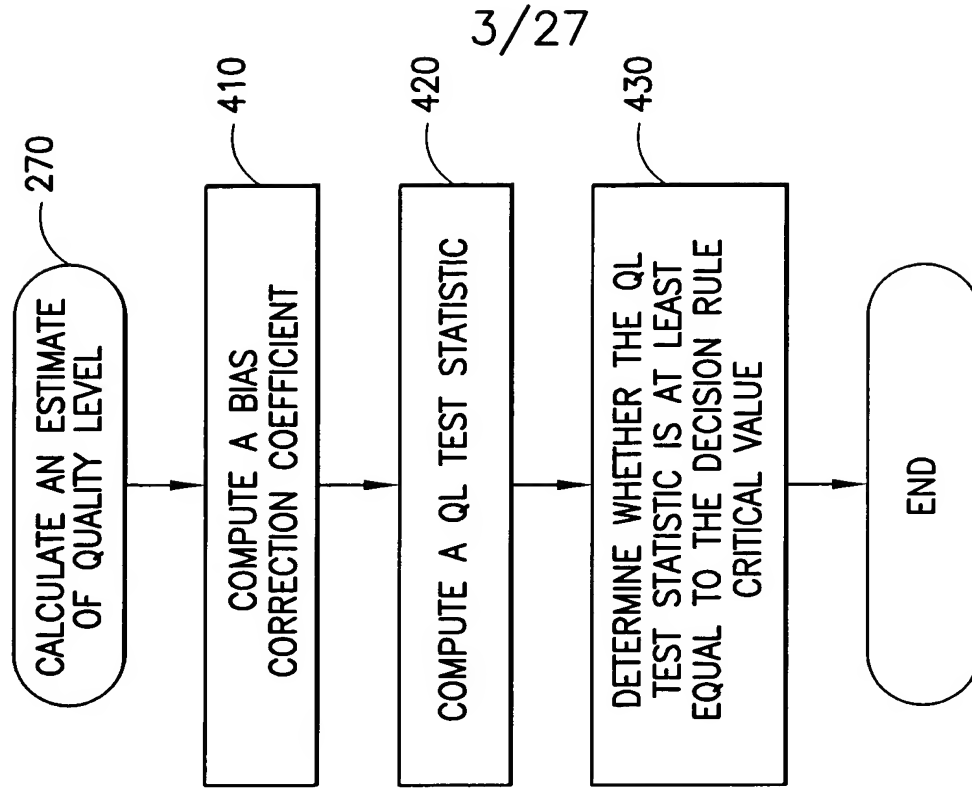


FIG.4

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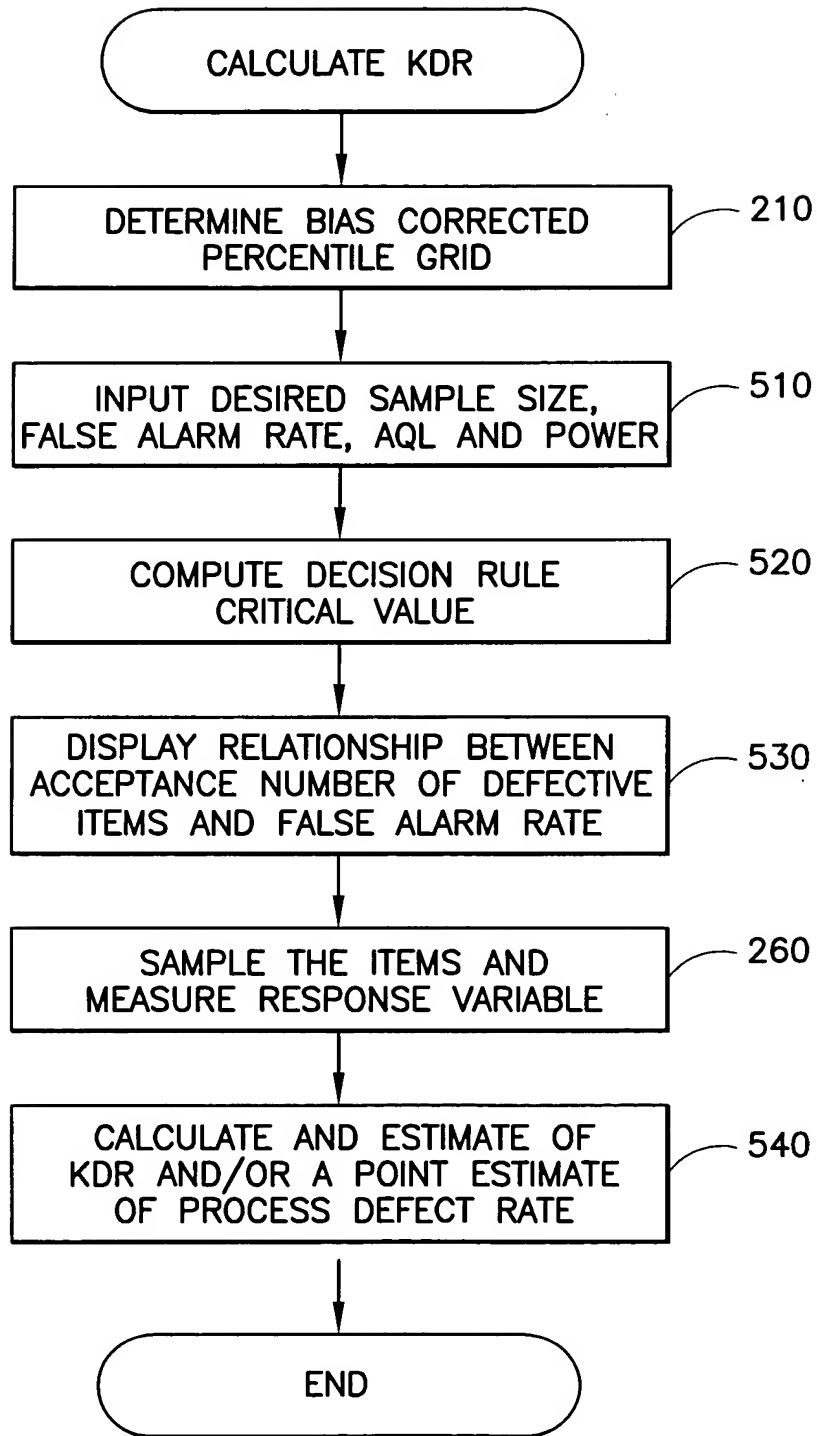
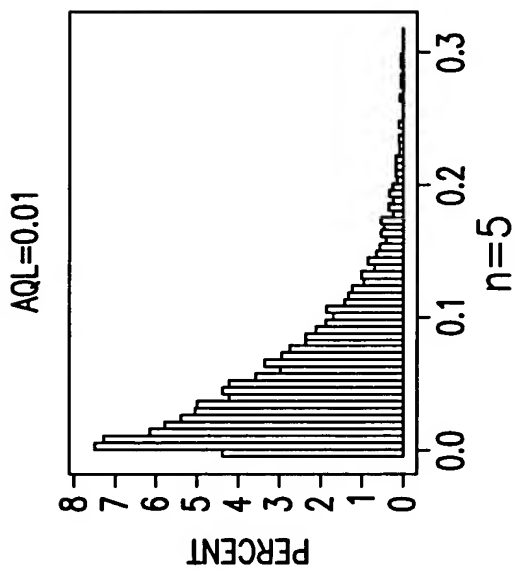


FIG.5



**FIG. 6A**

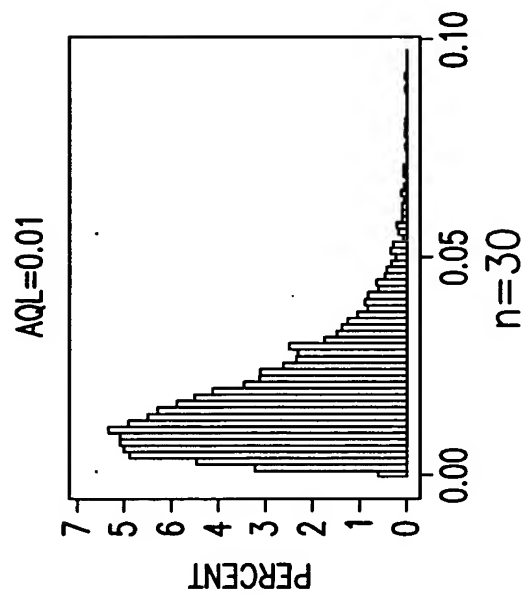
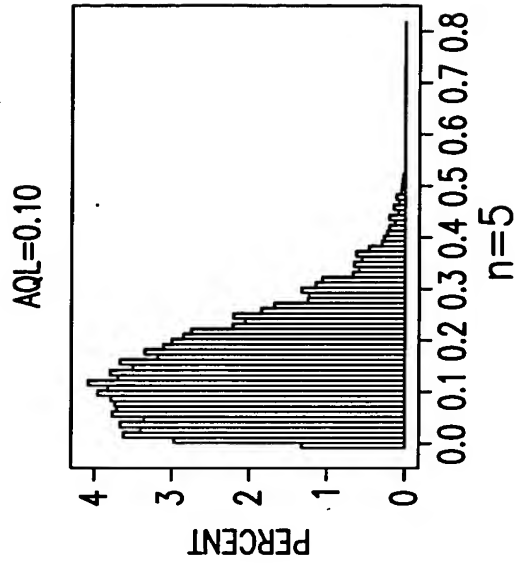
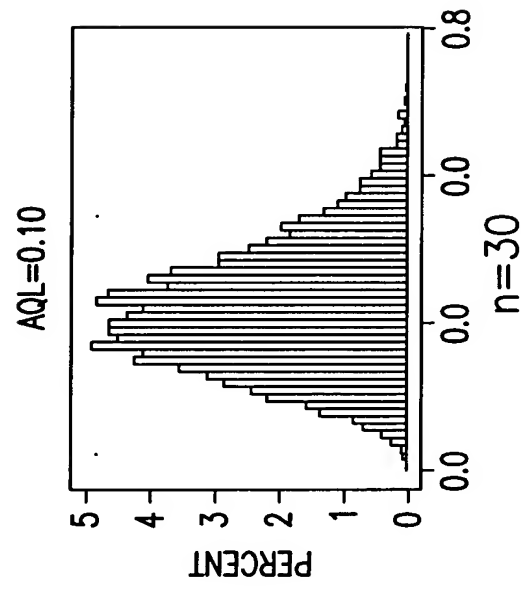


FIG. 6C



**FIG. 6B**



**FIG. 6D**

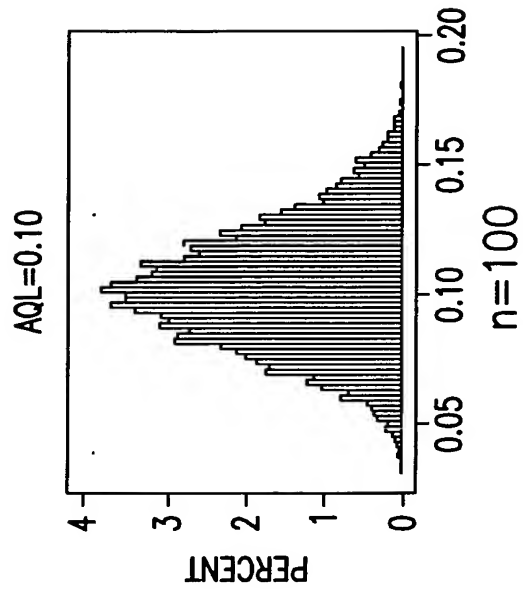


FIG.6F

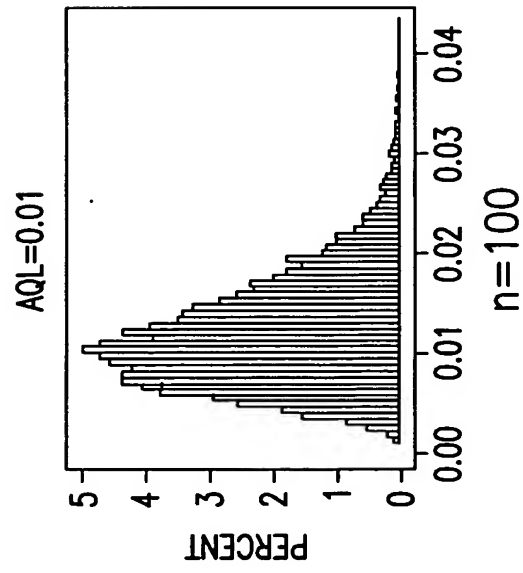


FIG.6E

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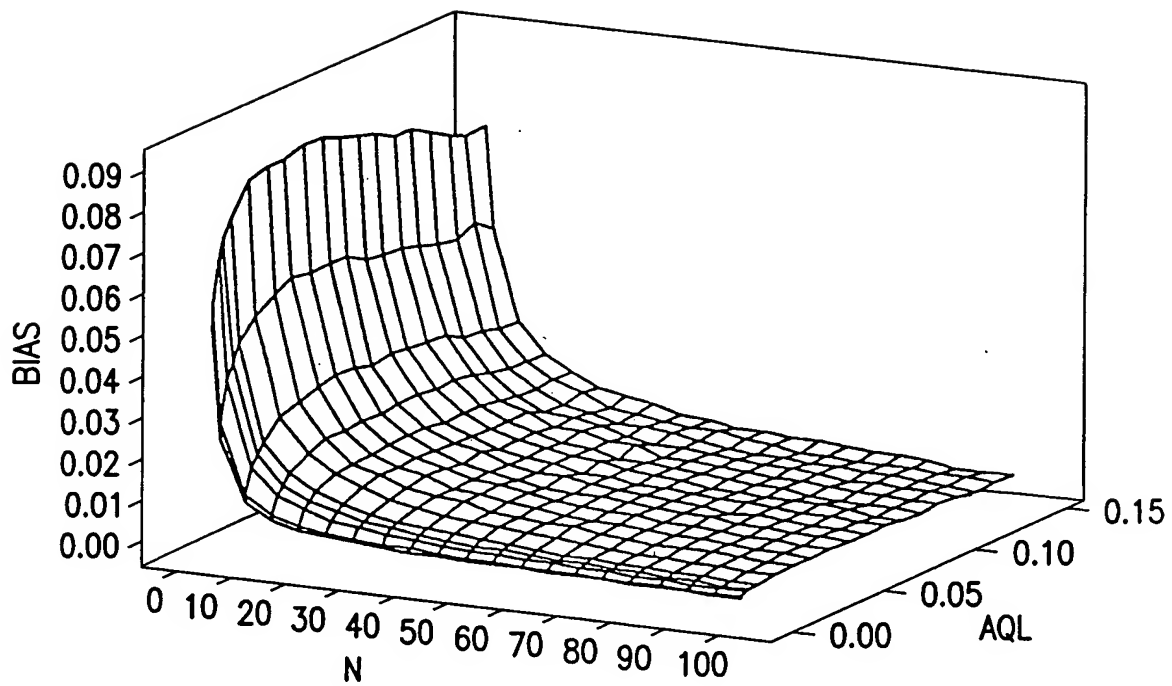


FIG.7

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BIAS CURVE, AQL=0.01

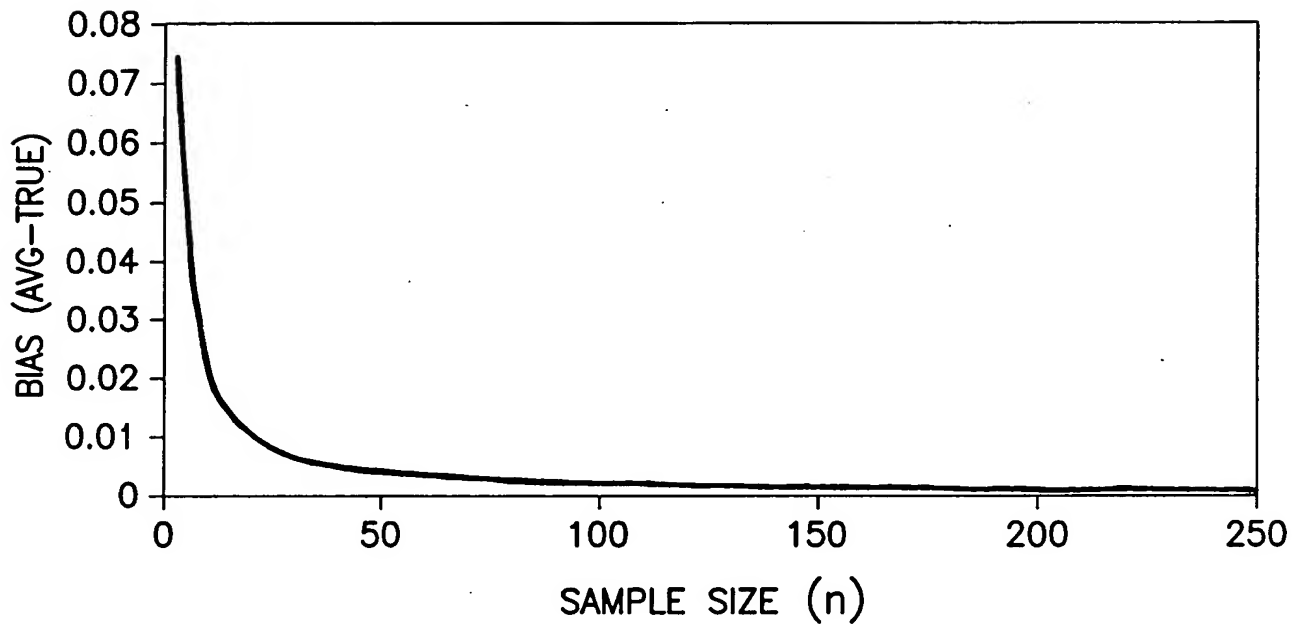


FIG.8A

BIAS CURVE, AQL=0.10

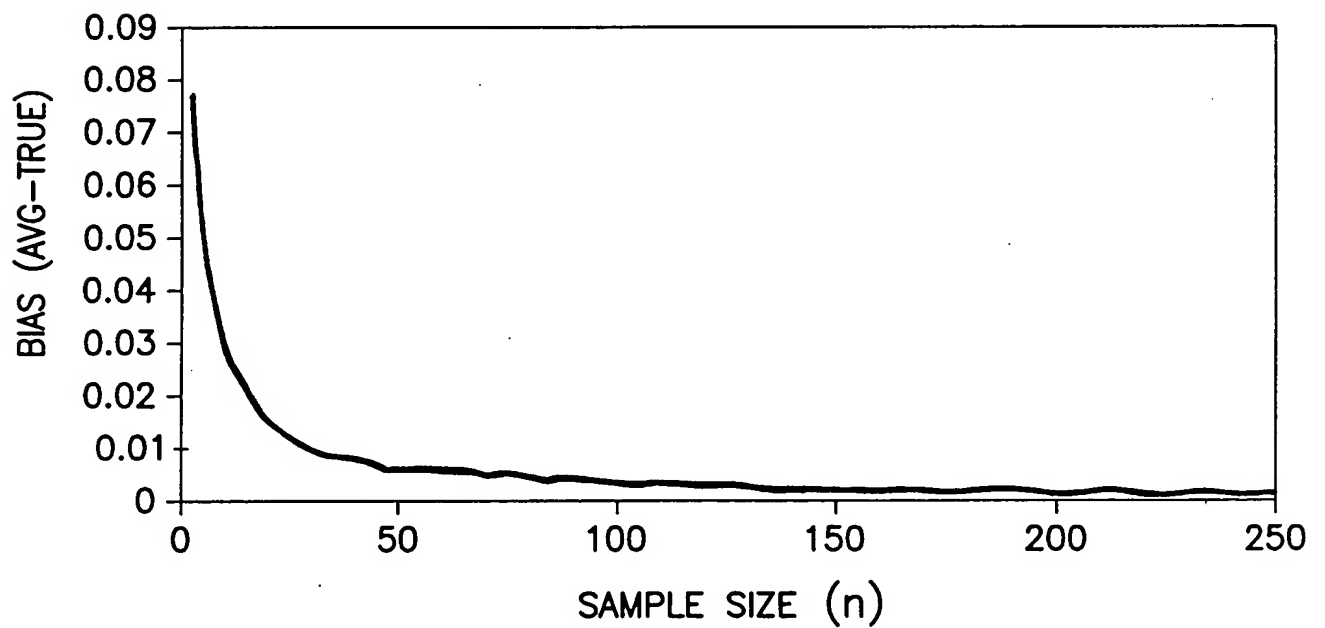
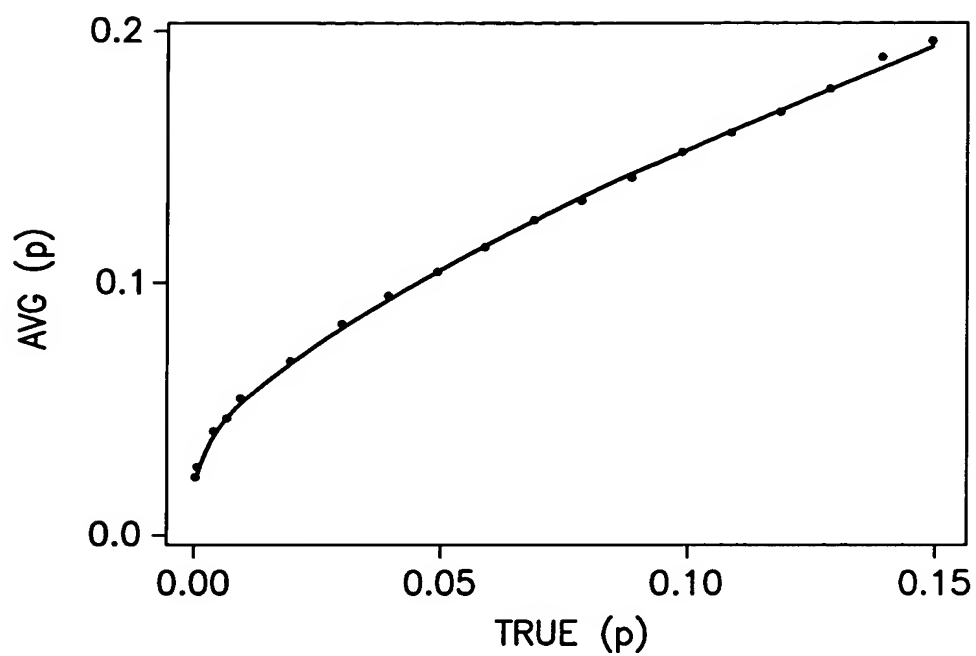


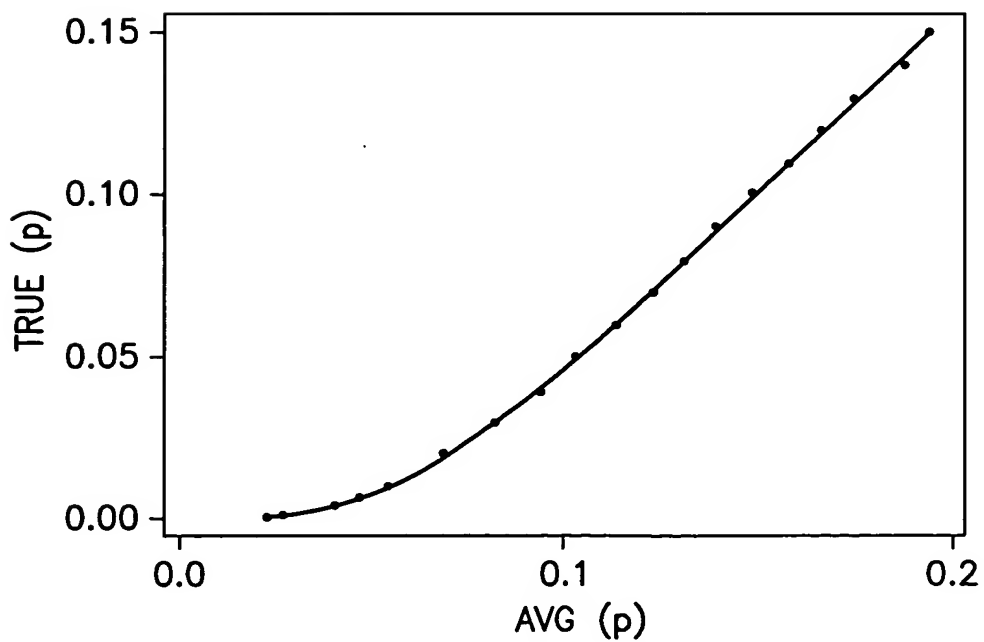
FIG.8B



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**FIG.9A**



**FIG.9B**

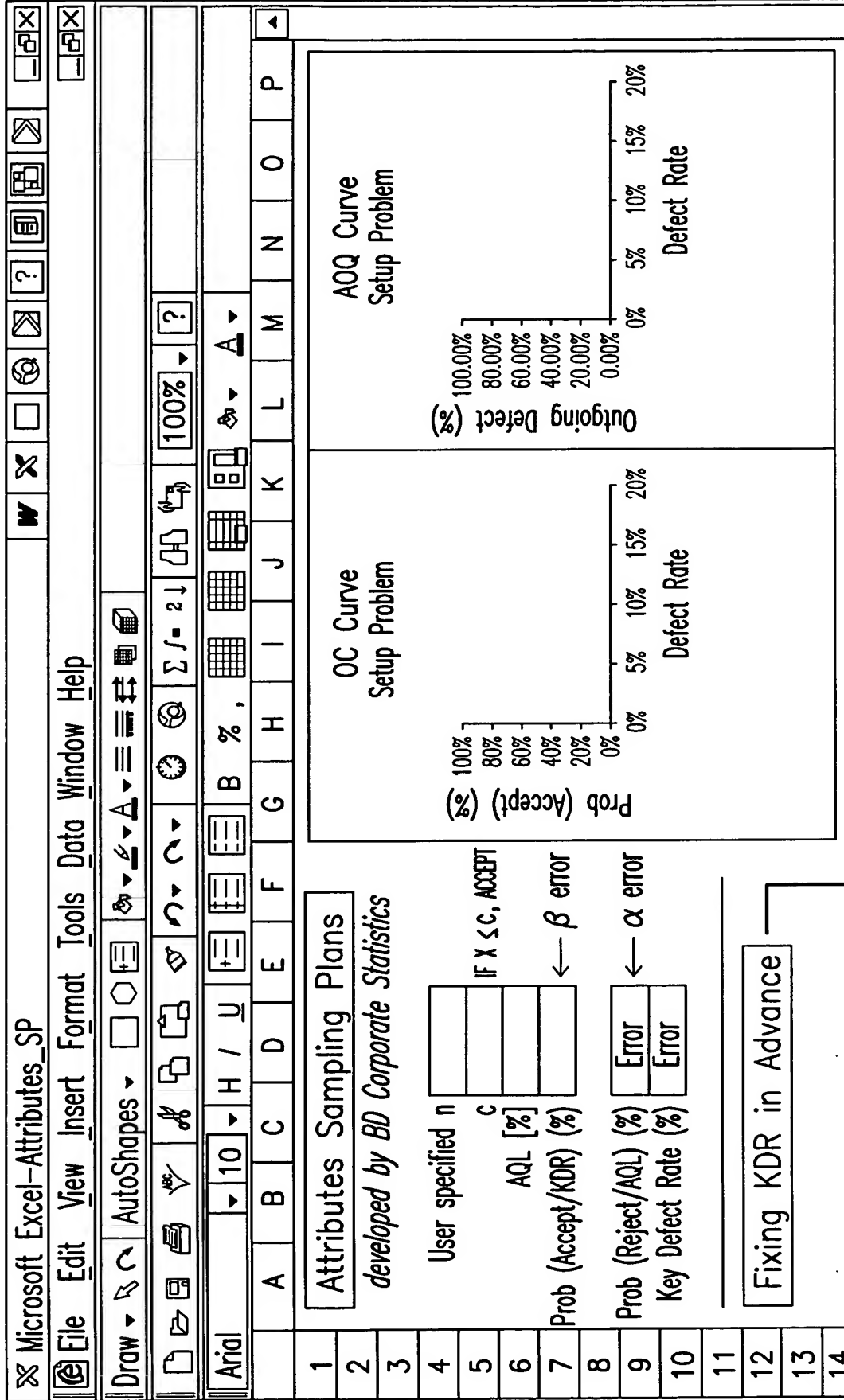


FIG.10A  
FIG.10B

FIG.10A

[illegible]

**FIG. 10B**

**FIG. 11A**

FIG. 11A

FIG. 11B

15	
16	Desired KDR (%) <input type="text"/>
17	Required n    Error <input type="text"/>
18	
19	under these conditions
20	c    0
21	AQL [%]    0.65
22	Target α (%)    Error
23	True β error (%)    Error
24	True α (%)    Error
25	
26	USE F9 KEY TO RECALCULATE SHEET
27	Plot Controls
28	OC & AOQ Curves
29	Max Rate (%) <input type="text"/> 6
30	Maintaining the Key Defect Rate
31	<input type="text"/> Max c    Target α (%) <input type="text"/>
32	
33	Use Ctrl 0 to Copy the 3 charts
34	
35	
36	

Ready

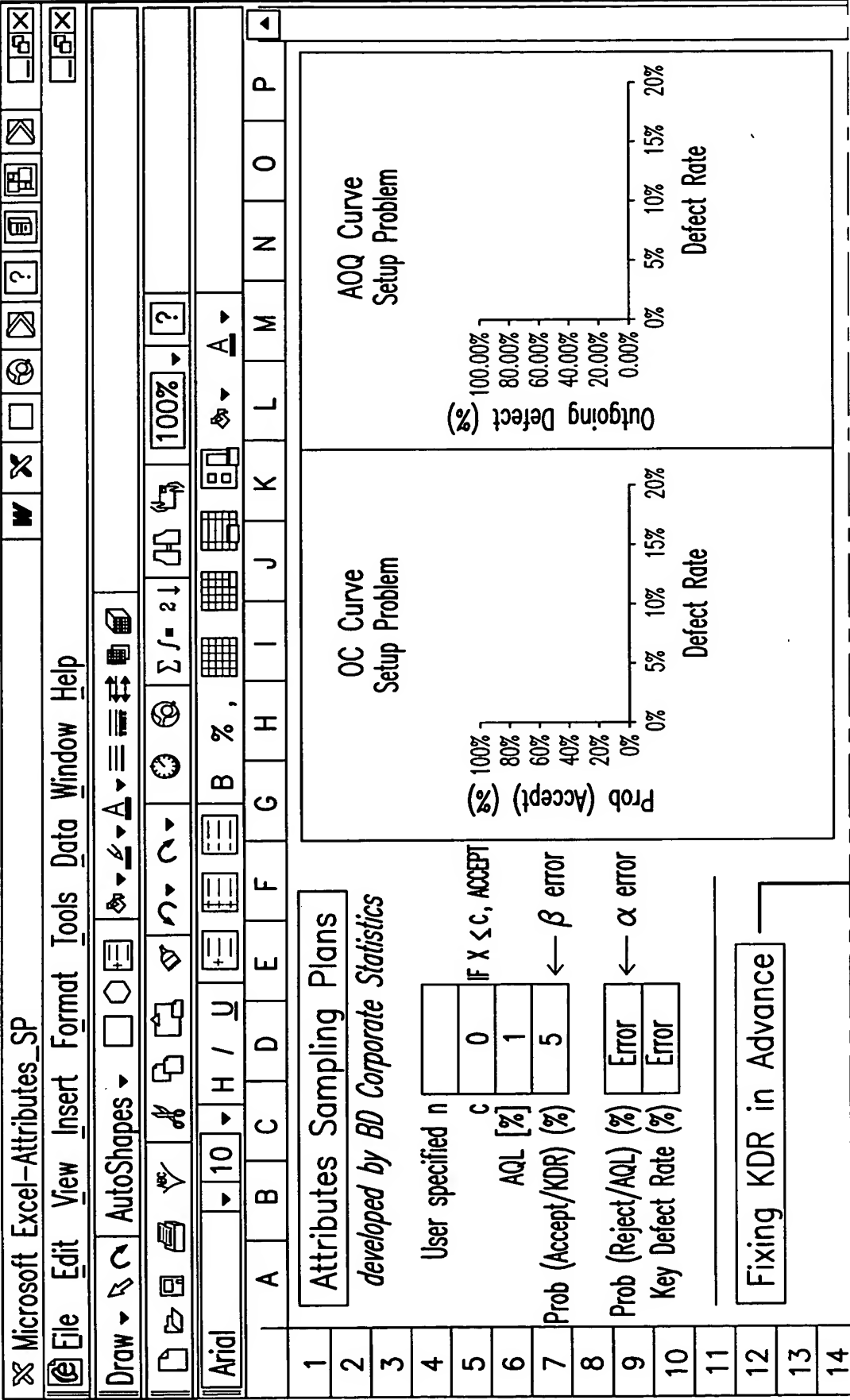


FIG.12A

FIG.12B

FIG.12A



[illegible]

**FIG. 13A**

FIG. 13A

FIG. 13B



15	
16	
17	
18	
19	
20	Desired KDR (%) <input type="text" value="3"/>
21	Required n <input type="text" value="392"/>
22	under these conditions
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	

Desired KDR (%)

Required n

under these conditions

c	<input type="text" value="6"/>
AQL [%]	<input type="text" value="1.00"/>
Target $\alpha$ (%)	<input type="text" value="10.00"/>
True $\beta$ error (%)	<input type="text" value="4.98"/>
True $\alpha$ (%)	<input type="text" value="10.15"/>

check

USE F9 KEY TO RECALCULATE SHEET

Plot Controls

OC & AOQ Curves

Max Rate (%)

Maintaining the Key Defect Rate

Max c  Target  $\alpha$  (%)

Use Ctrl 0 to Copy the 3 charts

Maintaining the Key Defect Rate

Target: KDR=3% with at least 95% power: AQL=1%

Recommendation:  
Type I Error is 10.15%  
at n=392 & c=6

Acceptable Number of Defectives, c	Type I Error, $\alpha$ (%)
0	99
1	167
2	208
3	267
4	303
5	348
6	392
7	436
8	478
9	521
10	562
11	604
12	645
13	686
14	726
15	766

Attributes /

Ready

FIG.13B

[illegible]



<b>Microsoft Excel-Attributes_SP</b>																				
Arial	10	H / U	B % ,					?	100%	?										
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
Variable Data Sampling Plans Based on the QL Test, developed by BD Corporate Statistics																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

**Case Input:**

AQL	0.65 %
$\alpha$	5 %
power	95 % = 1 - $\beta$

**CASE 1      CASE 2**

key defect rate (KDR)	%	sample size (n)	50
sample size (n)	Error	key defect rate	4.834 %
test cutoff (K)	Error	test cutoff (K)	2.263 %
estimated power	Error		

**OC Curve**  
 $n=50, AQL=0.65\%, KDR=4.83\%$

**FIG. 15A**

FIG. 15A

FIG. 15B

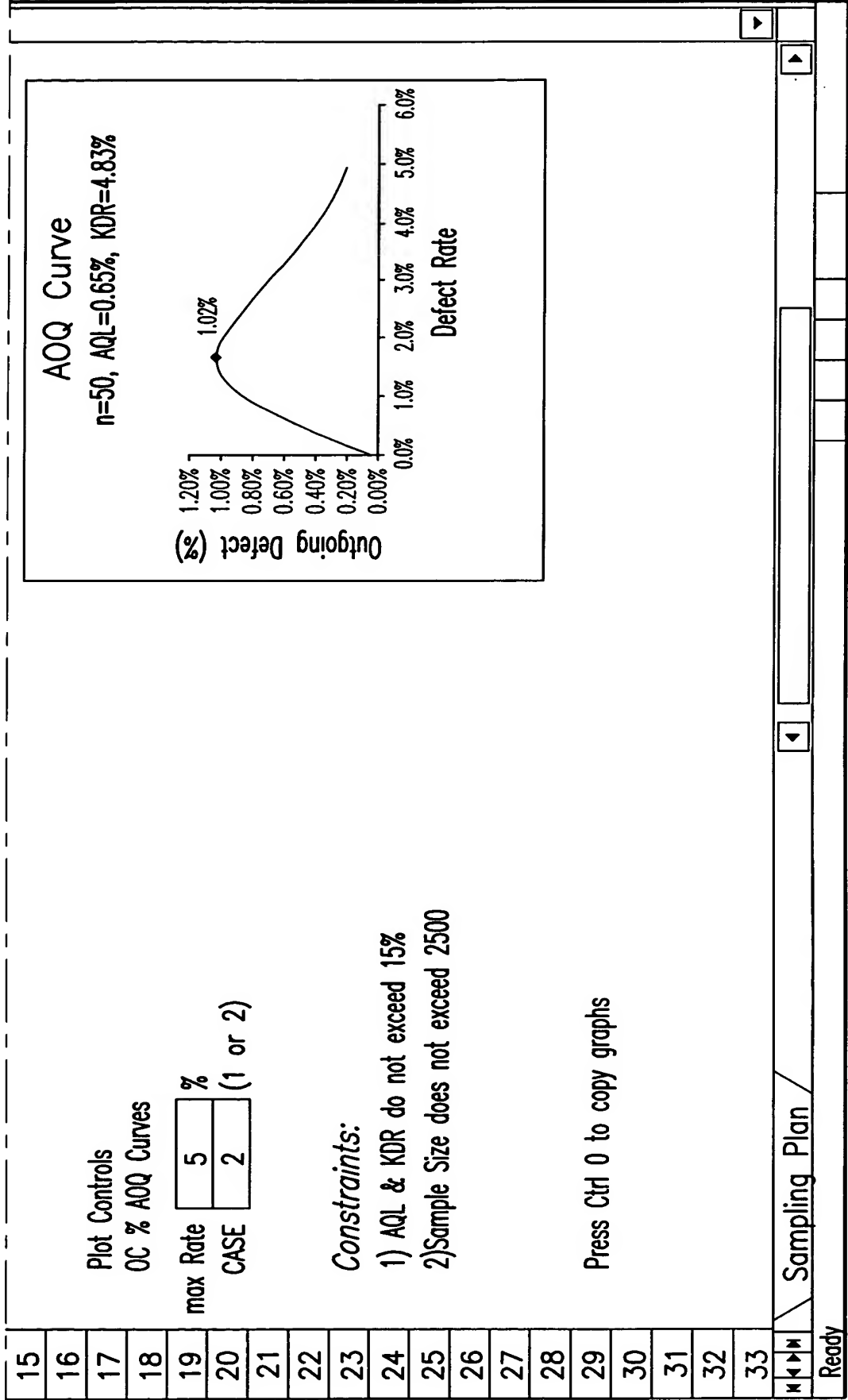


FIG.15B



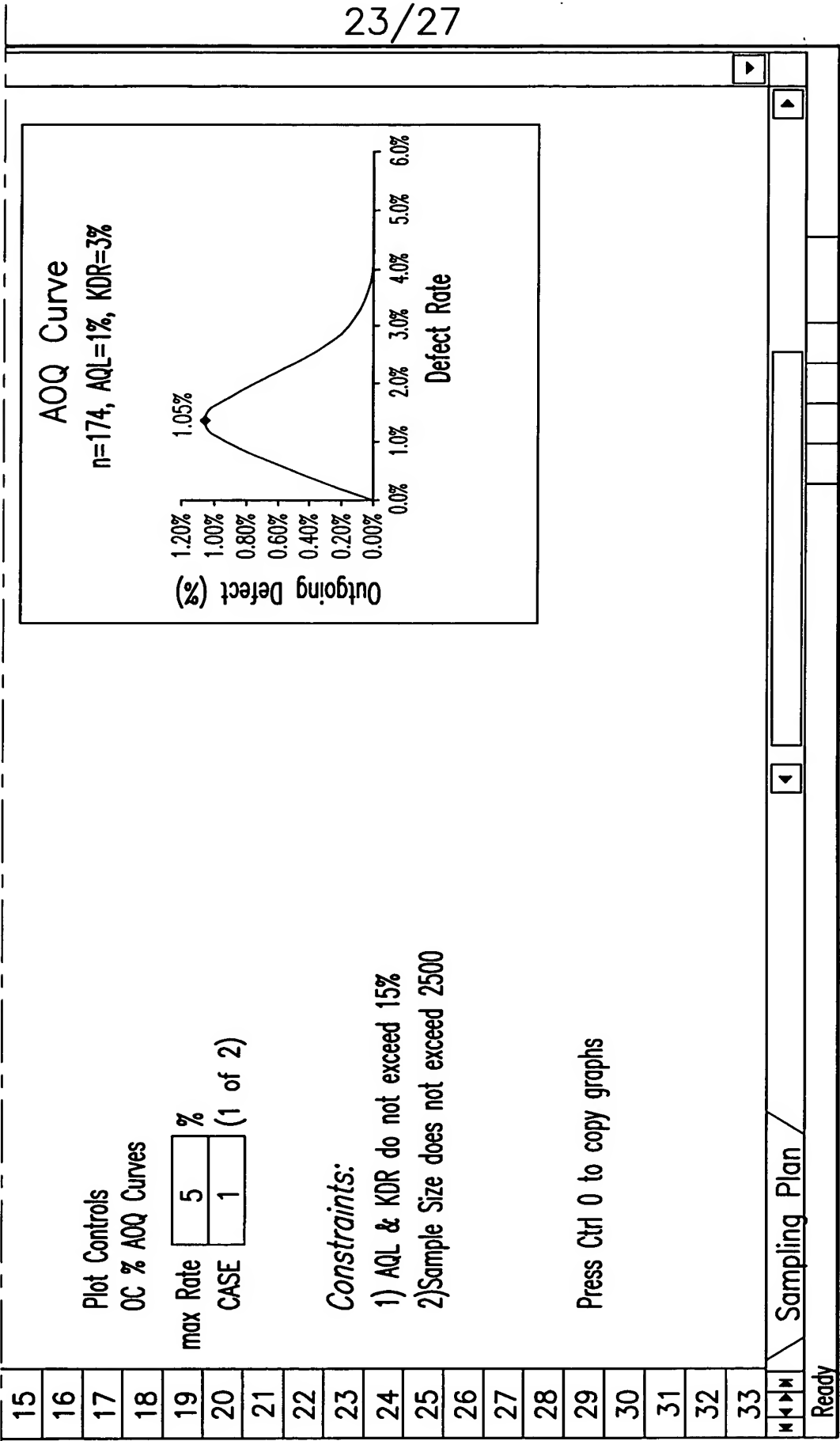


FIG.16B





**FIG. 17B**

[illegible]

FIG. 18A

FIG. 18B

**FIG. 18A**

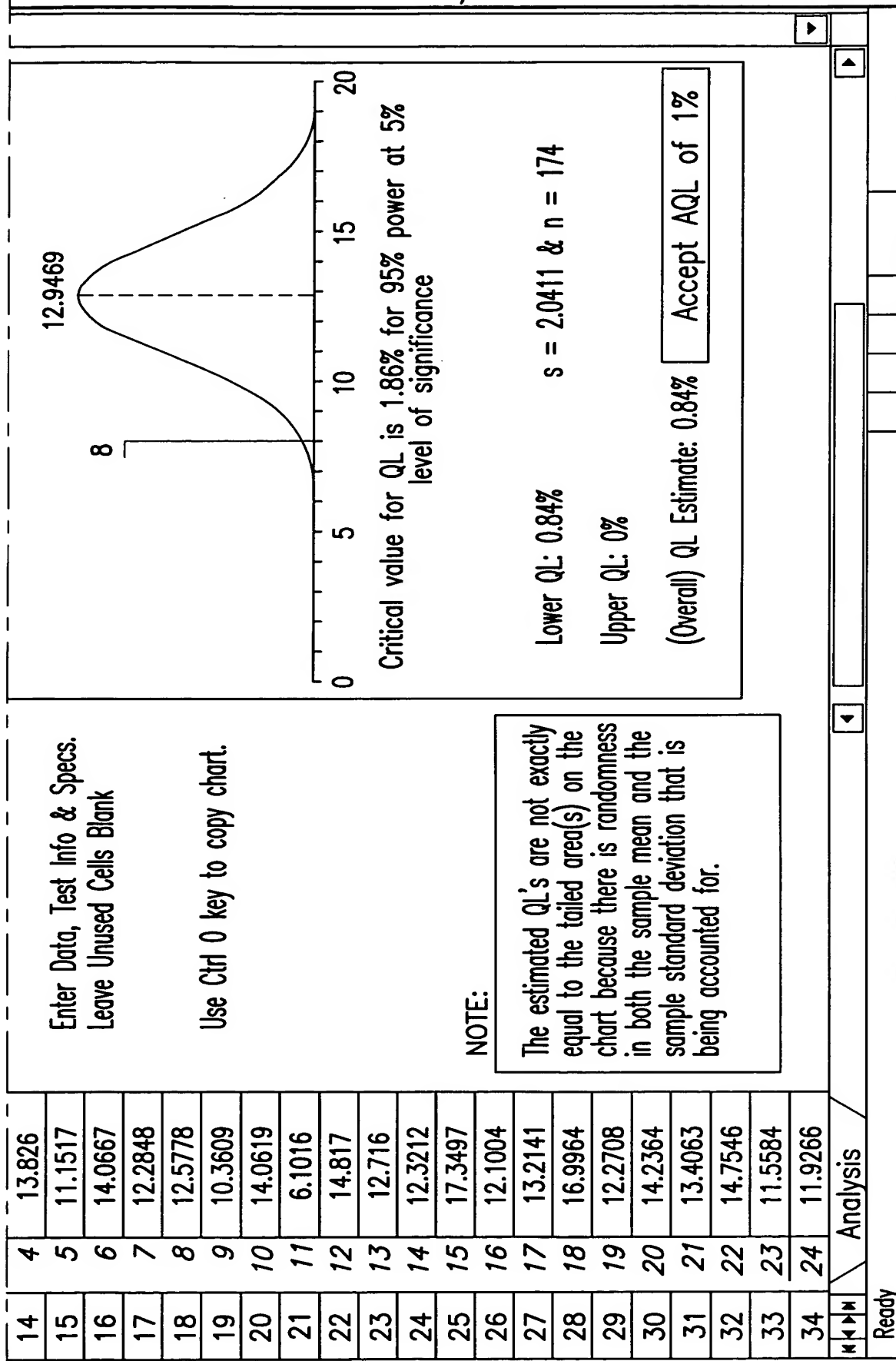


FIG.18B